

From the INTERNATIONAL SEARCHING AUTHORITY

To:			PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 bis. 1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
	see form PCT/ISA/220					
		,				
Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER ACTION See paragraph 2 below			
International application No. International filing date PCT/EP2004/051984 01.09.2004			day/month/year)	Priority date (day/month/year) 28.11.2003		
	national Patent Classification (IPC) or b B7/005, H04Q7/36	ooth national classification	and IPC	*		
Appli MO	cant TOROLA INC.					
1.	This opinion contains indication	ons relating to the follo	owing items:			
	☐ Box No. I Basis of the op	inion				
	⊠ Box No. II Priority					
,	☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	☐ Box No. IV Lack of unity of	· · · · · ·	•			
		ement under Rule 43 <i>bis</i> tations and explanations		novelty, inventive step or industrial ement		
	☐ Box No. VI Certain docume	ents cited				
	☑ Box No. VII Certain defects	in the international app	lication	•		
	☐ Box No. VIII Certain observa	ations on the internation	al application			
2.	FURTHER ACTION	••				
	If a demand for international preli	al Preliminary Examining ty other than this one to	g Authority ("IPEA"). F be the IPEA and the	lowever, this does not apply where chosen IPEA has notifed the		
		y together, where appro	priate, with amendme	IPEA, the applicant is invited to ents, before the expiration of three of 22 months from the priority date,		
	For further options, see Form PC	T/ISA/220.				
3.	For further details, see notes to F	Form PCT/ISA/220.				
	•					
	٠.					

Name and mailing address of the ISA:

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10/573006 IAP9 Recal PCT/PTO 21 MAR 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051984

_	Вох	No. i	I Basis of the opinion		
 With regard to the language, this opinion has been established on the basis of the international application the language in which it was filed, unless otherwise indicated under this item. 					
	1	langu	opinion has been established on the basis of a translation from the original language into puage , which is the language of a translation furnished for the purposes of international der Rules 12.3 and 23.1(b)).	o the following Il search	
2.			ard to any nucleotide and/or amino acid sequence disclosed in the international applic ry to the claimed invention, this opinion has been established on the basis of:	ation and	
	a. ty	pe of	f material:		
] a	a sequence listing		
] ta	able(s) related to the sequence listing	÷.	
	b. fo	rmat	t of material:	5.4	
] in	n written format	•	
] in	n computer readable form		
	c. tin	ne of	f filing/furnishing:		
] cc	contained in the international application as filed.		
] file	iled together with the international application in computer readable form.		
] fu	urnished subsequently to this Authority for the purposes of search.		
3.		has b	ddition, in the case that more than one version or copy of a sequence listing and/or table been filed or furnished, the required statements that the information in the subsequent or ies is identical to that in the application as filed or does not go beyond the application as fropriate, were furnished.	r additional	
4.	Addi	itiona	al comments:		

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International application No. PCT/EP2004/051984

	Box	x No. II Priority							
1.	\boxtimes	The following document h	nas not bee	n furnished	d:	Y =			
	☐ copy of the earlier application whose priority has been claimed (Rule 43bis 1 and 66.7(a))								
	☐ translation of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> .1 a								
		Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.		It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
4.	Add	ditional observations, if nec	essary:						
						·			
		x No. V Reasoned state ustrial applicability; citat				ard to novelty, inventive step or h statement			
1.	Sta	tement							
	Nov	velty (N)	Yes: No:	Claims Claims	3-7,8-11,14-16 1-2,12-13				
	Inve	entive step (IS)	Yes: No:	Claims Claims	8,10-11,15 1-7,9,12-14,16				
	Indi	ustrial applicability (IA)	Yes: No:	Claims Claims	1-16				
					1-16				
2.	Cita	ations and explanations			1-16				
2.	Cita				1-16				
2.	Cita	ations and explanations			1-16				

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see separate sheet

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International application No. PCT/EP2004/051984

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V.

1. Reference is made to the following documents:

D1: US-A-6094585 D2: EP-A-1280285 D3: WO03-A-096571 D4: US-B-6577880

- 2. The document D1, which is considered to be the closest prior art, discloses a cell divided into a plurality of sectors comprising the following steps and features set out in claims 1 and 13:
 - generating downlink power information for a multi-sector base transceiver site in which power can be shared between the sectors (see col.1, lines 28-39),
 - gathering downlink power information for each sector (see Fig. 3-4 and col.3, lines 48-58 and col.5, lines 1-13),
 - modifying the gathered downlink power information (see Fig. 3-4 and col.3, lines 58-66 and col.5, lines 13-15),
 - forwarding the modified downlink power information to a radio resource manager controlling the multi-sector base transceiver site (see Fig. 3-4 and col.3, line 67 to col.4, line 7 and col.5, lines 15-25).

Thus, the subject-matter of claims 1 and 13 is not novel (Article 33(2) PCT).

3. Moreover, an inventive step objection appears to be possible with regard to D2 and the knowledge of the skilled person.

The document D2 discloses a cell divided into a plurality of sectors comprising the following steps and features set out in claims 1 and 13:

- a multi-sector base transceiver site in which power can be shared between the sectors (see Fig.2 and Pg.2, col.2, lines 49-58),
- gathering downlink power information for each sector (see Fig.1 and Pg.3, col.4, line

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52 to col.5, line 3)

- modifying the gathered downlink power information (see Pg.4, col.6, line 52 to col.7, line 20).

Claim 1 further defines:

- forwarding the modified downlink power information to a radio resource manager controlling the multi-sector base transceiver site.

However, forwarding power measurements from a base station to a radio resource manager in order to perform power allocation is a common practice in third generation wireless communications, see for example D3 (abstract and Fig.5 and Fig.7 and Pg.4, line 6 to Pg.6, line 19) or D4 (Fig.7 and col.9, lines 25-65 and col.12, line 38 to col.14, line 29 and.

Thus, the present application does not meet the requirements of Article 33(3) PCT because the subject-matter of claims 1 and 13 does not involve an inventive step.

- 4. D1 (see Fig.4) also discloses all the features of claim 12.
- 5. The following dependent claims do not appear to contain any additional features which, in combination with the features of **claims 1 or 13** to which they refer, could form subject matter which meets the requirements in respect of novelty (Article 33(2) PCT) or inventive step (Article 33(3) PCT), the reasons being as follows:

Claims 2 and 3: the additional features are already known from D1 (see col.5, lines 1-20) and D2 (see Pg.5, col.7, lines 9-17).

Claims 4 and 5: the additional features are already known from D2 (see Pg.5, col.7, lines 17-33).

Claims 6, 14 and 16: Routine option.

Claim 7: the additional features are already known from D2 (see Pg.5, col.7, paragraph 18).

Claim 9: the additional features are already known from D2 (see Pg.4, col.5, lines 8-27).

Re Item VIII. Certain observations on the international application

The following claims do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined, the reasons being as follows:

a) Claim 1:

The meaning of the sentence "downlink power information for each sector" in claim 1 is ambiguous in relation to the information stated in the description (see Pg.5, lines 10-12 and Pg.6, line 18 to Pg.7, line 10) because "downlink power information" has a different specific meaning for the person skilled in the power control field, rendering therefore the scope of the claim unclear. Thus, for the purpose of examination, it is assumed that this sentence should actually read "downlink transmission power required for each sector".

b) Claim 12:

Product claim 10 is not clear, because the claim refers back also to method claims 1-

Re Item VII. Certain defects in the international application

- 1. Independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT.
- 2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 3. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in documents D1 to D4 is not mentioned in the description, nor are these documents identified therein.